

Name:

Exam Style Questions

Reciprocals



Corbettmaths

Equipment needed: Calculator, pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 145



Answers and Video Solutions



1. Fill in the blanks



$$\frac{2}{3} \times \frac{\boxed{3}}{\boxed{2}} = 1$$

(1)

2. Fill in the blanks



$$\frac{4}{7} \times \frac{\boxed{7}}{\boxed{4}} = 1$$

(1)

3. Fill in the blanks



$$8 \times \frac{\boxed{1}}{\boxed{8}} = 1$$

(1)

4. Fill in the blanks



$$\frac{1}{9} \times \frac{\boxed{9}}{\boxed{1}} = 1$$

(1)

5. Choose the correct word from the list to complete each sentence.



square square root reciprocal cube cube root

(a) 25 is the square of 5

(b) $\frac{1}{3}$ is the reciprocal of 3

(c) 7 is the square root of 49

(d) 8 is the cube of 2

(4)

6. What is the reciprocal of 4?



Circle the correct answer.

4

0.4

$\frac{1}{4}$

-4

(1)

7. Write down the reciprocal of 5



$\frac{1}{5}$
.....
(1)

8. Write down the reciprocal of $\frac{2}{3}$



$\frac{3}{2}$

$\frac{3}{2}$ or $1\frac{1}{2}$ or 1.5
.....
(1)

9. Write down the reciprocal of $\frac{10}{11}$



$$\frac{11}{10} \text{ or } 1\frac{1}{10}$$

(1)

10. Write down the reciprocal of $\frac{3}{10}$



$$\frac{10}{3} \text{ or } 3\frac{1}{3}$$

(1)

11. Find the reciprocal of $\frac{1}{12}$



$$12$$

(1)

12. Find the reciprocal of 0.5



$$\frac{1}{2} \rightarrow 2$$

$$2$$

(1)

13. Work out the reciprocal of 0.6



$$\frac{3}{5} \rightarrow \frac{5}{3}$$

$$\frac{5}{3} \text{ or } 1\frac{2}{3}$$

(1)

14. Work out the reciprocal of 0.7



$$\frac{7}{10} \rightarrow \frac{10}{7}$$

$$\frac{10}{7} \text{ or } 1\frac{3}{7}$$

(1)

15. Work out the reciprocal of 1.5



$$\frac{3}{2} \rightarrow \frac{2}{3}$$

$$\frac{2}{3}$$

(1)

16. Circle the reciprocal of $\frac{3}{4}$



$$\frac{1}{4}$$

$$\left(\frac{4}{3}\right)$$

$$-\frac{1}{4}$$

$$-\frac{4}{3}$$

(1)

17. Circle the reciprocal of $\frac{5}{8} \rightarrow \frac{8}{5}$



1.125

0.2

1.6

0.625

(1)

18. Work out the reciprocal of 20
Give your answer as a decimal



$$\frac{1}{20} = 0.05$$

0.05

(2)

19. James is thinking of a number.
He writes down the reciprocal of the number.
It is the same as his starting number.



What is the number James is thinking of?

1

(1)

20. Write down the number that does not have a reciprocal.



0

(1)

21. Write down the reciprocal of 0.22



$$\frac{22}{100} = \frac{11}{50}$$

$$\frac{11}{50} \rightarrow \frac{50}{11}$$

$$\frac{50}{11} \text{ or } 4\frac{6}{11}$$

(1)